

ABSTRACT OF THE DISCLOSURE

An implanted medical device (e.g. infusion pump) and external device
5 communicate with one another via telemetry wherein messages are transmitted
under a robust communication protocol. The communication protocol gives
enhanced assurance concerning the integrity of messages that impact medical
operations of the implantable device. Messages are transmitted using a multipart
format that includes a preamble, a frame sync, a telemetry ID, data, and a validation
10 code. The data portion of the message includes an op-code that dictates various
other elements that form part of the message. The data portion may also include
additional elements such as sequence numbers, bolus numbers, and duplicate data
elements. A telemetry ID for the transmitting device may be implicitly embedded in
the message as part of the validation code that is sent with the message and that
15 must be pre-known by the receiver to confirm the integrity of the received message.

PATENT NO. USP-1076-B